RESPONSE UNDER 37 CFR 1.116 EXPEDITED PROCEDURE EXAMINING GROUP NO. 1655-

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Cowsert et al.

Serial No.: 09/295,463

Filing Date: April 13, 1999

CKET NO.: ISIS-3455

Group Art Unit: 1631

Examiner: Marschel

For: IDENTIFICATION OF GENETIC TARGETS FOR MODULATION BY

OLIGONUCLEOTIDES AND GENERATION OF OLIGONUCLEOTIDES FOR

GENE MODULATION

EXPRESS MAIL LABEL NO: EV 160977710 US

DATE OF DEPOSIT: November 12, 2002

Box AF Assistant Commissioner for Patents Washington DC 20231

Dear Sir:

REPLY PURSUANT TO 37 CFR § 1.116

In response to the Final Official Action mailed September 10, 2002 in connection with the above-identified application, Applicants respectfully request that the application be amended and reconsidered in view of the following.

In the Claims:

Please amend claim 55 to read as follows:

55. (Amended three times) A method comprising:

generating in silico virtual compounds according to thermodynamic property, target accessibility, targeting to functional regions of target nucleic acid sequence, or uniform distribution to target nucleic acid sequence, wherein real compounds corresponding to said

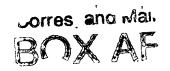
DOCKET NO.: ISIS-3455 PATENT

virtual compounds modulate the expression of a target nucleic acid sequence;

synthesizing compounds corresponding to at least some of said virtual compounds; and

robotically assaying said synthetic compounds for one or more desired physical, chemical or biological properties by computer-controlled polymerase chain reaction or by computer-controlled enzyme-linked immunosorbent assay.





AF 1631

PATENT

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NOV 1 9 2002
TECH CENTER 1600/2900

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ENTPOALLY

Box	□ NON-FEE
	\boxtimes_{AF}

Assistant Commissioner for Patents Washington DC 20231

Sir:

REPLY TRANSMITTAL LETTER

Transmitted herewith for filing in the above-identified patent application is:

	A Preliminary Amendment.
\boxtimes	An Amendment Responsive to the Office Action Dated September 10, 2002
	An Amendment Supplemental to the Paper filed
	Other:
\boxtimes	Applicant(s) has previously claimed small entity status under 37 CFR §1.27.
	Applicant(s) by its/their undersigned attorney, claims small entity status under 37

DOC	KET NO.: ISIS-3455	-2-	PATENT
	a Small	Business Concern	
	This application is no lo	offit Organization onger entitled to small entity status. Patent and Trademark Office.	It is requested that this be
	Substitute Pages	of the Specification a	re enclosed.
	An Abstract is enclosed	.	
	Sheets of Pr	roposed Corrected Drawings are end	closed.
	• •	ch of the following applications: is encl	
	An Associate Power of	Attorney is enclosed.	
	Information Disclosure Attached Form 1 A copy of each 1 herewith.		orm PTO-1449 is enclosed
	Appended Material as fo	ollows:	·
	Other Material as follow	vs:	·

FEE CALCULATION

No Additional Fee is Due.

				SMALL	ENTITY	NOT SMA	LL ENTITY
	REMAINING AFTER AMENDMENT	HIGHEST PAID FOR	EXTRA	RATE	FEE	RATE	FEE
TOTAL CLAIMS	35	54 (20 MINIMUM)	0	\$9 EACH	\$0	\$18 EACH	\$
INDEP. CLAIMS	29	45 (3 MINIMUM)	0	\$42 EACH	\$0	\$84 EACH	\$
FIRST PR	ESENTATION OF	MULTIPLE DEPE	NDENT	\$140	\$0	\$280	\$
	ONTH EXTENSION	ON OF TIME		\$55	\$0	\$110	\$
□ TWO M	IONTH EXTENSION	ON OF TIME		\$200	\$0	\$400	\$
	MONTH EXTEN	SION OF TIME		\$460	\$0	\$920	\$
☐ FOUR	MONTH EXTENS	ION OF TIME		\$720	\$0	\$1440	\$
☐ FIVE M	ONTH EXTENSION	ON OF TIME		\$980	\$0	\$1960	\$
☐ LESS ANY EXTENSION FEE ALREADY PAID				minus	(\$)	minus	(\$)
☐ TERMINAL DISCLAIMER				\$55	\$0	\$110	\$
□ OTHER FEE OR SURCHARGE AS FOLLOWS:							
TOTAL FEE DUE 0 \$							

ш	l A	Check	is I	Enclose	ed ir	ı the	Foreg	going	Amount	Due.
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Petition is hereby made under 37 C.F.R. 1.136(a) to extend the time for response to the Office Action of @@ to and through @@ comprising an extension of the shortened statutory period of @@ month(s).

The Commissioner is hereby requested to grant an extension of time for the appropriate length of time, should one be necessary, in connection with this filing or any future filing submitted to the U.S. Patent and Trademark Office in the above-identified application during the pendency of this application. The Commissioner is further authorized to charge any fees related to any such extension of time to deposit

account 23-3050. This sheet is provided in duplicate.

⊠	The Commissioner is authorized to charge payment of the following fees and to refund any overpayment associated with this communication or during the pendency of this application to deposit account 23-3050. This sheet is provided in duplicate.				
		The Foregoing Amount Due for Filing this Paper.			
		Any additional filing fees required, including fees for the presentation of extra claims under 37 C.F.R. 1.16.			
		Any additional patent application processing fees under 37 C.F.R. 1.17 or 1.20(d).			

SHOULD ANY DEFICIENCIES APPEAR with respect to this application, including deficiencies in payment of fees, missing parts of the application or otherwise, the United States Patent and Trademark Office is respectfully requested to promptly notify the undersigned.

Date: November 12, 2002

Daniel D. Biesterveld Registration No. 45,898

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439

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FEE CALCULATION:

Cancel in this application	original claims	of the prior application before
	(At least one original indepe	ndent claim must be retained
for filing purposes.)		

			SMALL	ENTITY	NOT SMA	ALL ENTITY
***************************************			RATE	FEE	RATE	FEE
PROVISIONAL A	PPLICATION		\$75.00	s	\$150.00	\$
DESIGN APPLICA	ATION		\$155.00	S	\$310.00	\$
UTILITY APPLIC	ATIONS BASE FI	EE .	\$380.00	\$380.00	\$760.00	S
UTILITY APPLIC CALCULATED A AMENDMENTS	•					
	No. Filed	No. Extra	*********	*****		
TOTAL CLAIMS	111-20 =	91	\$9 each	\$819.00	\$18 each	\$
TOTAL CLAIMS INDEP. CLAIMS FIRST PRESE	45-3=	42	\$39 each	\$1638.00	\$78 each	\$
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM			\$130	\$130	\$260	\$
ADDITIONAL FILING FEE				\$0		s
TOTAL FILING FEE DUE				\$2967.00		\$

\boxtimes	A Ch	A Check is enclosed in the amount of \$2967.00.					
	The Commissioner is authorized to charge payment of the following fees and to refund any overpayment associated with this communication or during the pendency of this application to deposit account 23-3050. This sheet is provided in duplicate.						
		The foregoing amount due.					
		Any additional filing fees required, including fees for the presentation of extra claims under 37 C.F.R. 1.16.					
		Any additional patent application processing fees under 37 C.F.R. 1.17 or 1.20(d).					
		The issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance.					
×	The Commissioner is hereby requested to grant an extension of time for the appropriate length of time, should one be necessary, in connection with this filing or any future filing submitted to the U.S. Patent and Trademark Office in the above-						

identified application during the pendency of this application. The Commissioner is